CSCI 120 WINTER 2024

Lab 3

Deadline: Moodle deadline on 28 Feb 2024

The task is to develop a Python program that assesses whether each string in an array of strings is a palindrome. The program should accomplish this without utilizing any built-in string functions.

```
#012345
import sys
def is palindrome(input string):
    Check if the given string is a palindrome.
    Parameters:
    - input string (str): The string to be checked.
    Returns:
    - bool: True if the string is a palindrome, False otherwise.
    #WRITE YOUR CODE HERE
    # DONT WRITE Anything below
def main():
    # Initialize an array of strings for testing
    input strings = ["madam", "hello"]
    for input_string in input_strings:
        # Check if the input string is a palindrome
        is pal = is palindrome(input string)
        print("\nInput string is", input_string)
```

Requirements

1. Input

◆ The program should take an array of strings as input. Each string in the array represents a word or phrase. The program will then determine whether each string in the array is a palindrome or not.

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2. Palindrome Check

◆ Implement the palindrome check algorithm without using any built-in string functions.

◆ A palindrome is a string that reads the same forwards and backwards.

3. Output

- ◆ The program should print either "Palindrome" or "Not a Palindrome" based on the result of the palindrome check.
- ◆ The is_palindrome function should return true if the string is palindrome and false if the string is not palindrome.

4. Save the File Offline

◆ Click the "Download Code" button/icon to save the file offline.

5. Submission

- ◆ Include your Student ID as comment at the top of your code i.e #012345.
 Rename
- the main.py file to lab3.py. Place the lab3.py in a folder and compress to a zip file.
- Submit it to moodle.

6. Grading

- ◆ (1 point) Correct submission of working code with no errors and loop implementation.
- ◆ (5 point) Correct solution to the problem.